

Robert A Waterland

List of Publications by Year in descending order

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Version: 2024-02-01

75
papers

17,313
citations

57758

44
h-index

88630

70
g-index

80
all docs

80
docs citations

80
times ranked

27163
citing authors

#	ARTICLE	IF	CITATIONS
1	Rationale and design of the Baylor Infant Twin Studyâ€”A study assessing obesityâ€related risk factors from infancy. <i>Obesity Science and Practice</i> , 2021, 7, 63-70.	1.9	1
2	Perfluorooctanoic acid (PFOA) or perfluorooctane sulfonate (PFOS) and DNA methylation in newborn dried blood spots in the Upstate KIDS cohort. <i>Environmental Research</i> , 2021, 194, 110668.	7.5	20
3	A machine learning caseâ€control classifier for schizophrenia based on DNA methylation in blood. <i>Translational Psychiatry</i> , 2021, 11, 412.	4.8	16
4	DNA methylation at a nutritionally sensitive region of the <i>PAX8</i> gene is associated with thyroid volume and function in Gambian children. <i>Science Advances</i> , 2021, 7, eabj1561.	10.3	13
5	Identification of cell type-specific methylation signals in bulk whole genome bisulfite sequencing data. <i>Genome Biology</i> , 2020, 21, 156.	8.8	22
6	Can Children Catch up from the Consequences of Undernourishment? Evidence from Child Linear Growth, Developmental Epigenetics, and Brain and Neurocognitive Development. <i>Advances in Nutrition</i> , 2020, 11, 1032-1041.	6.4	39
7	A new era for epigenetic epidemiology. <i>Epigenomics</i> , 2019, 11, 1647-1649.	2.1	16
8	Early postnatal overnutrition accelerates aging-associated epigenetic drift in pancreatic islets. <i>Environmental Epigenetics</i> , 2019, 5, dvz015.	1.8	15
9	A genomic atlas of systemic interindividual epigenetic variation in humans. <i>Genome Biology</i> , 2019, 20, 105.	8.8	70
10	DNA methylation in AgRP neurons regulates voluntary exercise behavior in mice. <i>Nature Communications</i> , 2019, 10, 5364.	12.8	26
11	Roadmap for investigating epigenome deregulation and environmental origins of cancer. <i>International Journal of Cancer</i> , 2018, 142, 874-882.	5.1	64
12	Establishment of environmentally sensitive DNA methylation states in the very early human embryo. <i>Science Advances</i> , 2018, 4, eaat2624.	10.3	59
13	Epigenetic supersimilarity of monozygotic twin pairs. <i>Genome Biology</i> , 2018, 19, 2.	8.8	89
14	Early-Life Effects on Adult Physical Activity: Concepts, Relevance, and Experimental Approaches. <i>Physiological and Biochemical Zoology</i> , 2017, 90, 1-14.	1.5	23
15	Meeting summary: the inaugural meeting of the US DOHaD society. <i>Environmental Epigenetics</i> , 2017, 3, dvw026.	1.8	0
16	Maternal exercise during pregnancy promotes physical activity in adult offspring. <i>FASEB Journal</i> , 2016, 30, 2541-2548.	0.5	59
17	Developmental programming of energy balance regulation: is physical activity more â€programmableâ€™ than food intake?. <i>Proceedings of the Nutrition Society</i> , 2016, 75, 73-77.	1.0	19
18	Interindividual Variation in DNA Methylation at a Putative POMC Metastable Epiallele Is Associated with Obesity. <i>Cell Metabolism</i> , 2016, 24, 502-509.	16.2	110

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19	Developmental programming: State of the science and future directions—Summary from a Pennington Biomedical symposium. <i>Obesity</i> , 2016, 24, 1018-1026.	3.0	47
20	Assisted reproductive technology alters deoxyribonucleic acid methylation profiles in bloodspots of newborn infants. <i>Fertility and Sterility</i> , 2016, 106, 629-639.e10.	1.0	84
21	CpG methylation differences between neurons and glia are highly conserved from mouse to human. <i>Human Molecular Genetics</i> , 2016, 25, 223-232.	2.9	16
22	CpG Methylation Differences Between Neurons and Glia are Highly Conserved from Mouse to Human. <i>FASEB Journal</i> , 2016, 30, 912.9.	0.5	0
23	Early Nutritional Influences on Human Developmental Epigenetics. <i>Journal of Nutritional Science and Vitaminology</i> , 2015, 61, S82-S82.	0.6	0
24	Independent genomewide screens identify the tumor suppressor VTRNA2-1 as a human epiallele responsive to periconceptual environment. <i>Genome Biology</i> , 2015, 16, 118.	9.6	149
25	Integrative analysis of 111 reference human epigenomes. <i>Nature</i> , 2015, 518, 317-330.	27.8	5,653
26	Postnatal epigenetic regulation of intestinal stem cells requires DNA methylation and is guided by the microbiome. <i>Genome Biology</i> , 2015, 16, 211.	8.8	113
27	On the meaning of the word “epimutation™”: a comment. <i>Trends in Genetics</i> , 2015, 31, 1.	6.7	2
28	Comparison and quantitative verification of mapping algorithms for whole-genome bisulfite sequencing. <i>Nucleic Acids Research</i> , 2014, 42, e43-e43.	14.5	68
29	Maternal nutrition at conception modulates DNA methylation of human metastable epialleles. <i>Nature Communications</i> , 2014, 5, 3746.	12.8	428
30	Epigenetic Mechanisms Affecting Regulation of Energy Balance: Many Questions, Few Answers. <i>Annual Review of Nutrition</i> , 2014, 34, 337-355.	10.1	76
31	Major epigenetic development distinguishing neuronal and non-neuronal cells occurs postnatally in the murine hypothalamus. <i>Human Molecular Genetics</i> , 2014, 23, 1579-1590.	2.9	32
32	Targeted p16Ink4a epimutation causes tumorigenesis and reduces survival in mice. <i>Journal of Clinical Investigation</i> , 2014, 124, 3708-3712.	8.2	70
33	Highlights of the 2012 Research Workshop. <i>Journal of Parenteral and Enteral Nutrition</i> , 2013, 37, 190-200.	2.6	11
34	DNA methylation potential: dietary intake and blood concentrations of one-carbon metabolites and cofactors in rural African women. <i>American Journal of Clinical Nutrition</i> , 2013, 97, 1217-1227.	4.7	131
35	Developmentally Programmed CpG Island Methylation Confers Tissue- and Cell-Type-Specific Transcriptional Activation. <i>Molecular and Cellular Biology</i> , 2013, 33, 1845-1858.	2.3	44
36	Early Postnatal Nutrition Determines Adult Physical Activity and Energy Expenditure in Female Mice. <i>Diabetes</i> , 2013, 62, 2773-2783.	0.6	45

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37	The Role of Epigenetics in the Developmental Origins of Health and Disease. , 2012, , 105-116.		4
38	Nutritional Regulation of Epigenetic Changes. <i>Advances in Nutrition</i> , 2012, 3, 749-750.	6.4	5
39	Epigenetic regulation in murine offspring as a novel mechanism for transmaternal asthma protection induced by microbes. <i>Journal of Allergy and Clinical Immunology</i> , 2011, 128, 618-625.e7.	2.9	157
40	Comparison of sequencing-based methods to profile DNA methylation and identification of monoallelic epigenetic modifications. <i>Nature Biotechnology</i> , 2010, 28, 1097-1105.	17.5	647
41	Season of Conception in Rural Gambia Affects DNA Methylation at Putative Human Metastable Epialleles. <i>PLoS Genetics</i> , 2010, 6, e1001252.	3.5	393
42	Epigenetic maturation in colonic mucosa continues beyond infancy in mice. <i>Human Molecular Genetics</i> , 2010, 19, 2168-2176.	2.9	49
43	Epigenomic profiling indicates a role for DNA methylation in early postnatal liver development. <i>Human Molecular Genetics</i> , 2009, 18, 3026-3038.	2.9	60
44	Early environmental effects on epigenetic regulation in humans. <i>Epigenetics</i> , 2009, 4, 523-525.	2.7	30
45	Is Epigenetics an Important Link between Early Life Events and Adult Disease?. <i>Hormone Research in Paediatrics</i> , 2009, 71, 13-16.	1.8	111
46	Ten Putative Contributors to the Obesity Epidemic. <i>Critical Reviews in Food Science and Nutrition</i> , 2009, 49, 868-913.	10.3	576
47	Methyl donor supplementation prevents transgenerational amplification of obesity. <i>International Journal of Obesity</i> , 2008, 32, 1373-1379.	3.4	359
48	Epigenetic epidemiology of obesity: application of epigenomic technology. <i>Nutrition Reviews</i> , 2008, 66, S21-S23.	5.8	25
49	Dnmt1 deficiency promotes CAG repeat expansion in the mouse germline. <i>Human Molecular Genetics</i> , 2008, 17, 1306-1317.	2.9	97
50	Individual Epigenetic Variation: When, Why, and So What?. <i>Nestle Nutrition Workshop Series Paediatric Programme</i> , 2008, 62, 141-155.	1.5	8
51	Diet-induced hypermethylation at <i>agouti viable yellow</i> is not inherited transgenerationally through the female. <i>FASEB Journal</i> , 2007, 21, 3380-3385.	0.5	185
52	Genome-Wide Profiling of DNA Methylation Reveals a Class of Normally Methylated CpG Island Promoters. <i>PLoS Genetics</i> , 2007, 3, e181.	3.5	319
53	Response to Methyl donors change the germline epigenetic state of the <i>A^{vy}</i> allele. <i>FASEB Journal</i> , 2007, 21, 3021-3022.	0.5	3
54	Tumor Suppressor Gene Inactivation during Cadmium-Induced Malignant Transformation of Human Prostate Cells Correlates with Overexpression of <i>de Novo</i> DNA Methyltransferase. <i>Environmental Health Perspectives</i> , 2007, 115, 1454-1459.	6.0	187

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55	Methods of DNA methylation analysis. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2007, 10, 576-581.	2.5	109
56	Epigenetic Epidemiology of the Developmental Origins Hypothesis. <i>Annual Review of Nutrition</i> , 2007, 27, 363-388.	10.1	746
57	Diet-induced hypermethylation at viable yellow agouti is not inherited transgenerationally. <i>FASEB Journal</i> , 2007, 21, A291.	0.5	0
58	Epigenetic mechanisms and gastrointestinal development. <i>Journal of Pediatrics</i> , 2006, 149, S137-S142.	1.8	83
59	Assessing the Effects of High Methionine Intake on DNA Methylation. <i>Journal of Nutrition</i> , 2006, 136, 1706S-1710S.	2.9	228
60	Maternal methyl supplements increase offspring DNA methylation at <i>Axin fused</i> . <i>Genesis</i> , 2006, 44, 401-406.	1.6	450
61	Maternal Genistein Alters Coat Color and Protects <i>A^{vy}</i> Mouse Offspring from Obesity by Modifying the Fetal Epigenome. <i>Environmental Health Perspectives</i> , 2006, 114, 567-572.	6.0	877
62	Post-weaning diet affects genomic imprinting at the insulin-like growth factor 2 (<i>Igf2</i>) locus. <i>Human Molecular Genetics</i> , 2006, 15, 705-716.	2.9	324
63	Developmental establishment of epigenotype: a role for dietary fatty acids?. <i>Food Nutrition Research</i> , 2006, 50, 21-26.	0.3	15
64	Molecular events associated with arsenic-induced malignant transformation of human prostatic epithelial cells: aberrant genomic DNA methylation and K-ras oncogene activation. <i>Toxicology and Applied Pharmacology</i> , 2005, 206, 288-298.	2.8	155
65	Does Nutrition during Infancy and Early Childhood Contribute to Later Obesity via Metabolic Imprinting of Epigenetic Gene Regulatory Mechanisms?. , 2005, 56, 157-174.		29
66	Commentary: The global relevance of 'biological Freudianism'. <i>International Journal of Epidemiology</i> , 2004, 34, 15-17.	1.9	0
67	Early nutrition, epigenetic changes at transposons and imprinted genes, and enhanced susceptibility to adult chronic diseases. <i>Nutrition</i> , 2004, 20, 63-68.	2.4	714
68	Tissue-Specific Inactivation of Murine <i>M6P/IGF2R</i> . <i>American Journal of Pathology</i> , 2003, 162, 321-328.	3.8	59
69	Transposable Elements: Targets for Early Nutritional Effects on Epigenetic Gene Regulation. <i>Molecular and Cellular Biology</i> , 2003, 23, 5293-5300.	2.3	1,874
70	Early Postnatal Nutrition Determines Adult Pancreatic Glucose-Responsive Insulin Secretion and Islet Gene Expression in Rats. <i>Journal of Nutrition</i> , 2002, 132, 357-364.	2.9	73
71	<i>M6P/IGF2R</i> tumor suppressor gene mutated in hepatocellular carcinomas in Japan. <i>Hepatology</i> , 2002, 35, 1153-1163.	7.3	58
72	Mannose 6-phosphate/insulin-like growth factor 2 receptor (<i>M6P/IGF2R</i>) variants in American and Japanese populations. <i>Human Mutation</i> , 2001, 18, 25-31.	2.5	31

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73	Reply to A Lucas. American Journal of Clinical Nutrition, 2000, 71, 602-603.	4.7	3
74	Potential mechanisms of metabolic imprinting that lead to chronic disease. American Journal of Clinical Nutrition, 1999, 69, 179-197.	4.7	501
75	Calibrated-orifice nipples for measurement of infant nutritive sucking. Journal of Pediatrics, 1998, 132, 523-526.	1.8	19